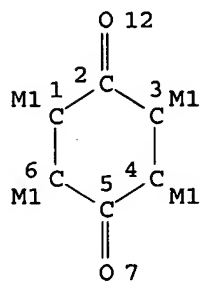


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	274	549/333	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:03
L2	286	549/341	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:03
L3	213155	ethylene adj glycol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:04
L4	157393	propylene adj glycol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:05
L5	27923	neopentyl adj glycol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:05
L6	298530	3 4 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:06
L7	520	1 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:06
L8	184	6 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/01/14 14:06

=> d sia l6
 L6 HAS NO ANSWERS
 L6 STR

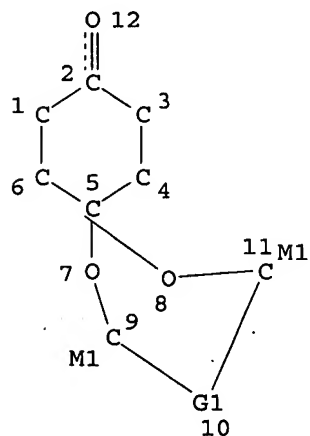


NODE ATTRIBUTES:
 HCOUNT IS M1 AT 1
 HCOUNT IS M1 AT 3
 HCOUNT IS M1 AT 4
 HCOUNT IS M1 AT 6
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

=> d sia l1
 L1 HAS NO ANSWERS
 L1 STR



REP G1=(0-1) C
 NODE ATTRIBUTES:
 HCOUNT IS M1 AT 9
 HCOUNT IS M1 AT 11
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

10/662980

=> s l6 ful
FULL SEARCH INITIATED 13:26:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 60455 TO ITERATE

100.0% PROCESSED 60455 ITERATIONS
SEARCH TIME: 00.00.01

341 ANSWERS

L8 341 SEA SSS FUL L6

=> s l1
SAMPLE SEARCH INITIATED 13:26:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 801 TO ITERATE

100.0% PROCESSED 801 ITERATIONS
SEARCH TIME: 00.00.01

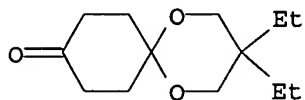
10 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 14323 TO 17717
PROJECTED ANSWERS: 11 TO 389

L9 10 SEA SSS SAM L1

=> d scan

L9 10 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 1,5-Dioxaspiro[5.5]undecan-9-one, 3,3-diethyl- (9CI)
MF C13 H22 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 13:13:18 ON 14 JAN 2005)

FILE 'REGISTRY' ENTERED AT 13:13:26 ON 14 JAN 2005

```
L1          STR
L2          STR L1
L3          0 S L2
L4          STR L2
L5          0 S L4
L6          STR L4
L7          6 S L6
L8          341 S L6 FUL
L9          10 S L1
L10         269 S L1 FUL
```

FILE 'CAPLUS' ENTERED AT 13:26:46 ON 14 JAN 2005

=> s l8/rct

```
          964 L8
          2692618 RCT/RL
L11        467 L8/RCT
          (L8 (L) RCT/RL)
```

=> s l10/p

```
L12        232 L10/P
```

=> s l11 and l12

```
L13        24 L11 AND L12
```

=> s l8 and l10

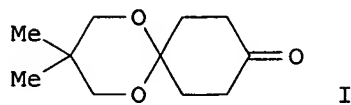
```
          964 L8
          944 L10
L14        64 L8 AND L10
```

=> s l14 not l13

```
L15        40 L14 NOT L13
```

L14 ANSWER 47 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 1984:209205 Document No. 100:209205 A facile and efficient method for
 monoketalization of 1,4-cyclohexanedione. Babler, James H.; Spina,
 Kenneth P. (Dep. Chem., Loyola Univ. Chicago, Chicago, IL, 60626, USA).
 Synthetic Communications, 14(1), 39-44 (English) 1984. CODEN: SYNCAV.
 ISSN: 0039-7911. OTHER SOURCES: CASREACT 100:209205.

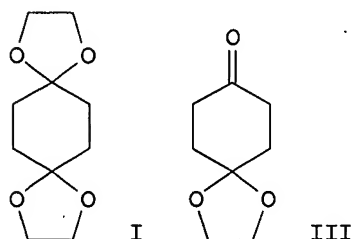
GI



AB Monoketal I was obtained selectively when the reaction mixture was
 continuously extracted by hexane. 1,4-Cyclohexanedione was dissolved in
 aqueous
 H₂SO₄ containing HOCH₂CMe₂CH₂OH, NaHCO₃ was introduced to prevent
 bisketalization, and the solution was continuously extracted with hexane to
 remove I.

L14 ANSWER 49 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 1983:539378 Document No. 99:139378 Preparation and isolation of
 1,4-cyclohexanedione monoacetal. Kamenka, Jean Marc; Geneste, Patrick; El
 Harfi, Ahmed (Ec. Natl. Super. Chim., Univ. Sci. Tech. Languedoc,
 Montpellier, F-34075, Fr.). Bulletin de la Societe Chimique de France
 (3-4, Pt. 2), 87-8 (French) 1983. CODEN: BSCFAS. ISSN: 0037-8968. OTHER
 SOURCES: CASREACT 99:139378.

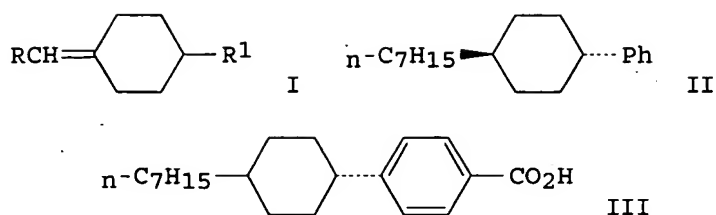
GI



AB The transketalization of bis-ketal I with 1,4-cyclohexanedione II gave
 mono-ketal III in PhMe containing 4-MeC₆H₄SO₃H. The III was separated by
 crystallization
 in order that I and II could be recycled.

L14 ANSWER 53 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 1981:480493 Document No. 95:80493 Trans-1,4-disubstituted cyclohexane
 compounds. Rich, Roland (Hoffmann-La Roche, F., und Co. A.-G., Switz.).
 Ger. Offen. DE 3036717 19810416, 26 pp. (German). CODEN: GWXXBX.
 APPLICATION: DE 1980-3036717 19800929.

GI



AB Hydrogenation of I (R = n-C1-11 alkyl; R1 = Ph, biphenyl) over a noble metal gave predominantly the trans isomer; the products were converted into carboxylic acids. Thus, Wittig reaction of 4-phenylcyclohexanone with n-C7H15Ph3PBr gave I (R = C6H13, R1 = Ph), which (195.6 g) was hydrogenated in 4.5 L absolute EtOH containing 11.8 g pyridine and 20 g 5% Pt/C 13 h at 50° to give 184.2 g product containing 88.2 II and 9.4% cis isomer; II was acetylated with AcCl-AlCl3 and subjected to the bromoform reaction to give III.

L14 ANSWER 56 OF 64 CAPLUS COPYRIGHT 2005 ACS on STN
 1975:496514 Document No. 83:96514 Preparation of the ethylene glycol monoketal of cyclohexane-1,4-dione. Mussini, P.; Orsini, F.; Pelizzoni, F. (Ist. Chim. Org., Univ. Milano, Milan, Italy). Synthetic Communications, 5(4), 283-6 (English) 1975. CODEN: SYNCAV. ISSN: 0039-7911. OTHER SOURCES: CASREACT 83:96514.

GI For diagram(s), see printed CA Issue.

AB Oxidation of 1,4-cyclohexanediol gave 91% 1,4-cyclohexanedione (I), which when treated with HO(CH2)2OH in C6H6 containing p-MeC6H4SO3H gave 98% II, which when refluxed with I containing p-MeC6H4SO3H gave 47% III, 34% II and 11% I, which were separated by chromatog.

=> d l15 ti tot

L15 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation of spiro and dispiro 1,2,4-trioxolane as antimalarials

L15 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation of 3-aminopyrrolidine chemokine receptor antagonists as antiinflammatory and immunomodulatory bioactive compounds

L15 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation of spiro- and dispiro-1,2,4-trioxolanes as antimalarial agents, schistosomicides, and anticancer agents

L15 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Mild and chemoselective catalytic deprotection of ketals and acetals using cerium(IV) ammonium nitrate

L15 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Hydrolysis of acetals in water under hydrothermal conditions

L15 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation of substituted cyclohexanones

L15 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI [3,3] Sigmatropic rearrangement of some fluorinated 1,5-hexadienes

L15 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation of spiro/dispiro-1,2,4-trioxolanes as antimalarial agents

L15 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN

TI Method for producing liquid crystal compounds having a CF₂O bridge

L15 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2005 ACS on STN

TI Carbanion induced synthesis of annulated unsymmetrical biaryls through ring transformation of 2H-pyran-2-one